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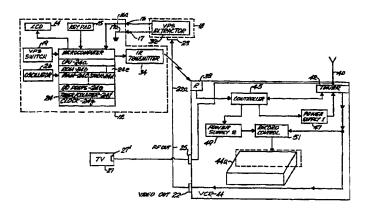
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(54) Title: VPS COMPATIBLE APPARATUS AND METHOD USING COMPRESSED CODES FOR IR CODE SELECTION



(57) Abstract

An embodiment of the present invention is a method for programming a controller for selection, from a plurality of set of infrared (IR) codes, set of IR codes for subsequent control of IR signal communication with a video cassette recorder (VCR). Each set of IR codes is for communicating with a different corresponding VCR. To this end, each such VCR has a tuner, which, when tuned to an actual channel of broadcast video signals, provides video signals derived from the actual channel to a video output thereof. A signal is provided to the VCR where the signal is predetermined by a selected IR code which is selected from one of the sets of IR codes. This causes the VCR to perform a predetermined operation. The video output of the VCR is monitored for a predetermined signal condition, such as a video signal being present, or for a label broadcast in the video signals. A set of IR codes is then selected for subsequent signal communication with the VCR. The set of IR codes which is selected is the one from which the selected IR code is selected which results in the predetermined signal condition.

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In tional Application No PCT/US 96/06908

A. CLASSIFICATION OF SUBJECT MATTER IPC 6 H04N5/782 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) HO4N IPC 6 Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the international search (name of data base and, where practical, search terms used) C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. WO,A,93 12612 (YUEN ET AL.) 24 June 1993 1,7,13 see page 28, line 30 - page 30, line 20 & US,A,5 307 173 cited in the application Α WO,A,94 28676 (MANKOVITZ ET AL.) 8 13 December 1994 see page 43, line 30 - page 48, line 5; figures 29-35 WO,A,95 11568 (MANKOVITZ) 27 April 1995 1,7,13 Α see page 9, line 1 - page 11, line 18; figures 1A,2A,2B Further documents are listed in the continuation of box C. X Patent family members are listed in annex. Special categories of cited documents: "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the "A" document defining the general state of the art which is not considered to be of particular relevance invention "E" earlier document but published on or after the international "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docudocument referring to an oral disclosure, use, exhibition or ments, such combination being obvious to a person skilled in the art. other means document published prior to the international filing date but later than the priority date claimed "&" document member of the same patent family Date of mailing of the international search report Date of the actual completion of the international search 3 0. **12. 96** 19 December 1996 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentiaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Verleye, J Fax: (+31-70) 340-3016

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Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows: See extra sheet
1. X As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searches without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest. X No protest accompanied the payment of additional search fees.

INTERN	NATIONAL SEARCH REPORT International Appli	ication No. PCT/US 96/ 06908
FURTHER INFORM	MATION CONTINUED FROM PCT/ISA/210	
l 2. claims l	1-13: programming a controller for selection of 14-32: channel mapping of a video cassette record 33-91: programming of a video cassette recorder of	der controller

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